

Leadership in Energy Environmental Design (LEED)

MWY has participated in the design and construction of projects that seek LEED certification. Specific projects include the new Administration Center for Beaver Water District (BWD) in Lowell, AR, the Advanced Resource Recovery Project for Advanced Environmental Recycling Technologies (AERT) in Watts, OK, the Fayetteville District Court Building in Fayetteville, AR., and the Transfer Station & Material Recovery Facility Expansion, also in Fayetteville.

EXPANSION OF ADMINISTRATION FACILITIES Beaver Water District, Lowell, Arkansas Completed 2009 LEED® GOLD

The BWD Administration Center is a roughly 13,500 S.F. building situated on a 10-acre site. The building includes high efficiency electrical, lighting, plumbing, and HVAC systems, recycled materials, materials of local origin, and sustainable building materials. The design included attention to open common space as well as daylight, views, and interior comforts systems. The building was fully commissioned.

MWY participated in the LEED charrette process and worked with other design team members to integrate the design needs of each discipline while maintaining the overall project schedule. MWY provided architectural and civil engineering design services.

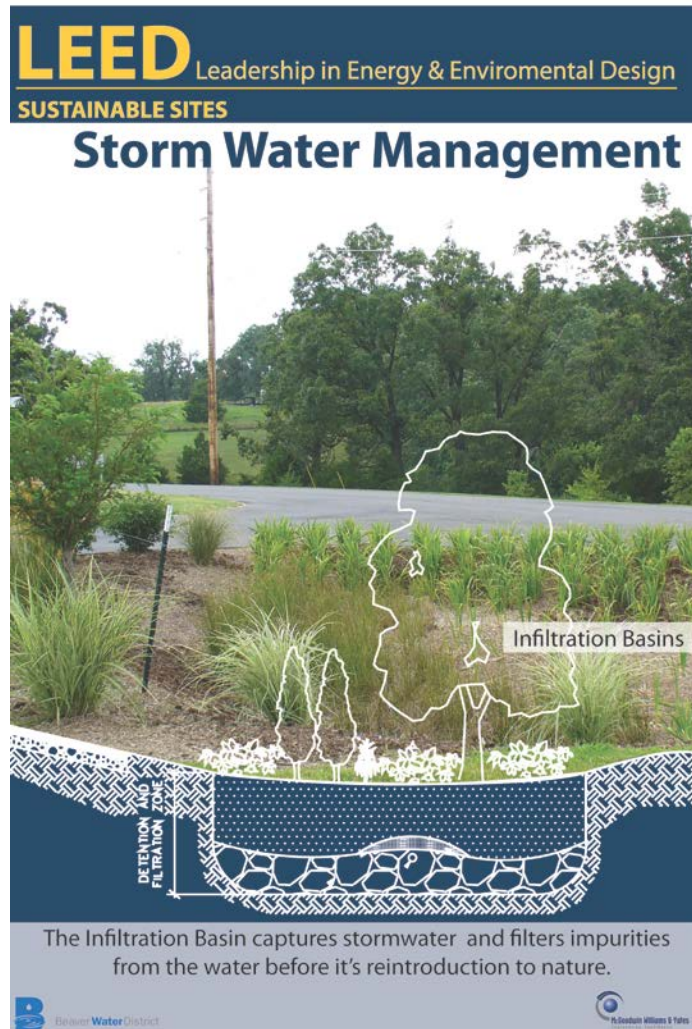


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MWY also performed construction administration for the new Administration Center. MWY led weekly progress meetings to identify questions and design components that posed challenges to the Contractor. By working with the Owner and Contractor, MWY was able to coordinate through these issues and deliver an incredible new building and site to the Owner.

The BWD Administration Center site includes roadways, parking, open space, landscaping, and progressive storm water infrastructure. Concrete was favored for reflectivity, pervious concrete pavement was utilized for all hardscape parking, and overflow parking is provided by a grass paver turf reinforcing system. Rainfall that is generated by the building flows directly to either one of the five bioretention/infiltration basins, or into the water feature that is fed by 100% process waste water generated by the BWD water purification process. While perfectly safe for fish, frogs, and other wildlife, the water is not potable.

The BWD Administration Center achieved LEED Gold, being one of only ten projects in Arkansas at that time to have achieved that LEED rating. The Center has also received many highlights in local media and is regularly utilized for continuing education tours and seminars. In 2010 the project was awarded the American Council of Engineering Companies of Arkansas (ACEC/A) Grand Conceptor award for the Civil/Site design.





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AERT Advanced Resource Recovery Project

MWY provided civil/site design, preparation of construction documents, and LEED credit application for this project, which also included extensive stormwater retention infrastructure and 60-inch RCP stormwater piping.

City of Fayetteville District Court Building

MWY provided civil/site design, preparation of construction documents, and LEED credit application for this project.

City of Fayetteville Transfer Station & Material Recovery Facility Expansion

MWY provided civil/site design, architectural design for building expansion and renovation, preparation of construction documents, and management services for the LEED design and certification process.

Fully Commissioned Projects

MWY participated in the fully commissioned project for a new Administration Center for Beaver Water District in Lowell, AR. MWY worked with the Owner and the LEED Accredited Professional to review commissioning service providers and to develop the commissioning criteria for this project. One of the most important aspects of the Center to the Owner was interior comfort; especially light and air temperature. The commissioning process allowed for these human comforts to be fine tuned to the Owner's preferences. The commissioning, as it often does, also identified some minor items that were able to be adjusted and achieve the performance goals required by the contract documents.



SUSTAINABILITY INITIATIVES

MWY's expertise on civil infrastructure design includes being on the cutting edge of sustainability initiatives within our industry.

Reduced Impact on Waterways

MWY has utilized pervious concrete pavement, infiltration/bioretention basins and disconnected storm water conveyance systems to help reduce the impact of development on adjacent receiving water ways.

- For example, for the Beaver Water District Administration Center in Lowell, MWY was able to dramatically reduce any impact on downstream areas adjacent to a 14,000 square foot building and approximately 2 acres of paving, much of that being pervious concrete pavement.

Stormwater Management

MWY has also developed a set of standard details for roadway projects that include permeable pavements, tree well type curb inlets, stormwater depression basins that promote infiltration of storm water, and infiltration trenches that can capture and temporarily store large volumes of water with minimal surface construction required. Our LEED Gold Certified site plan for the 10-acre Beaver Water District Administration Center Campus utilized multiple sustainability initiatives including stormwater management, utilizing recycled and low impact materials, utilizing native plantings and even recycled water for a prominent landscape feature.

Coordination/Communication with Stakeholders

MWY serves many of the municipalities of Northwest and the greater Arkansas and has specific expertise in serving this market. MWY is comfortable dealing with the complicated nature of existing utility coordination and relocation that accompanies many large scale projects. MWY has extensive experience bringing together the stakeholders to identify all the needs of a project and work to satisfy all needs, even apparently conflicting needs.

- For example, while working with the city of Springdale on roadway design and construction projects MWY coordinated with the city staff, residents, program managers, utility companies, highway department personnel, and many others to identify needs early and get them into the work flow. By doing this homework at the beginning, MWY saved time and money by eliminating last minute changes and expensive change orders.
- While designing a new recycling drop-off and education facility for the city of Fayetteville, MWY worked with Utility Department staff (Client), Planning Commission staff (review agency), Landscaping Division (Landscape Architect of record for the project), and other city and state regulatory agencies to complete design and city review approval on time for bid.

Low Impact Development Principals

MWY is comfortable with low impact development (LID) principles of design and can help a client navigate expectations and performance goals. When options exist MWY will bring to the table and discuss potential issues like performance, cost, scheduling, and other project completion concepts early on in design.

Environmental Permitting and Compliance

MWY is comfortable navigating the waters of environmental permitting and compliance. Most MWY projects require State of Arkansas review agency approval, and quite often by more than one agency. MWY and our partners can help a client determine what kinds of environmental issues may arise for a project early.



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- For example, on the Prairie Grove wastewater treatment facility project MWY coordinated with the Corps of Engineers for the construction of a new outfall structure. MWY was able to prepare a schedule for the client, the contractor, and the Corps and when it came time for the work, all the permits were in order and the Contractor was able to get into the stream and do the work in a matter of days. This process allowed the Contractor on this project to stay on schedule, contributing to an overall project that was completed on time and under budget.